

**Part-I****General Awareness**

- Which of the following is a organic rock ?  
(A) Slate (B) Marble  
(C) Granite (D) Coal
- What is the largest satellite of the planet saturn ?  
(A) Titan (B) Enceladus  
(C) Rhea (D) Lapteus
- Which soil is found in Indo-Gangetic planes ?  
(A) Loam (B) Alluvial  
(C) Black (D) Dry
- Which is the largest river of Indian sub continent ?  
(A) Ganges (B) Indus  
(C) Godavari (D) Kaveri
- 'Leech' belongs to which group ?  
(A) Insect (B) Mammals  
(C) Parasite (D) None of these
- Which is the most abundant gas in air ?  
(A) Nitrogen (B) Oxygen  
(C) Hydrogen (D) Ozone
- Which is the most abundant element in atmosphere ?  
(A) Oxygen (B) Nitrogen  
(C) Neon (D) Ozone
- Whose name is written on ten rupees note ?  
(A) Governor of RBI  
(B) Finance Secretary of India  
(C) Finance Minister of India  
(D) None of these
- If speed of rotation of earth increase, then mass of earth would—  
(A) Decrease  
(B) Increase  
(C) No effect  
(D) May increase or decrease depends upon the speed of rotation
- Rubber cultivation is done in which areas ?  
(A) Pampas  
(B) Savannah  
(C) Temporary Decidious Forest  
(D) None of these
- Acid and base combine to form—  
(A) Salt and Water  
(B) Base and Water  
(C) Acid and Water  
(D) None of these
- Radio waves reflects back from which layer ?  
(A) Troposphere  
(B) Stratosphere  
(C) Mesosphere  
(D) Ozone Layer
- If lime is added to the soil, then—  
(A) Acidity of soil increases  
(B) Acidity of soil decreases  
(C) Salinity of soil increases  
(D) None of these
- If a ship comes to sea water from river water, then its bottom will—  
(A) Rises due to buoyancy  
(B) Rise in water due to more mass of water  
(C) Same in both sea of river water  
(D) None of these
- Liver digests—  
(A) Proteins (B) Fats  
(C) Amino Acids (D) Water
- Which of the following does not exereete waste from the body ?  
(A) Skin  
(B) Liver  
(C) Large intestine  
(D) Kidney
- Rickets is due to the deficiency of which ?  
(A) Vitamin A (B) Vitamin C  
(C) Vitamin D (D) Vitamin B<sub>12</sub>
- Monetary policy in India is formulated by—  
(A) Finance Ministry  
(B) RBI  
(C) SEBI  
(D) CLB
- Which one of the following pairs of goods is an example for Joint Supply ?  
(A) Coffee and Tea  
(B) Ink and Pen  
(C) Tooth Brush and Paste  
(D) Wool and Mutton
- Which countries are separated by the 49th parallel ?  
(A) USA and Canada  
(B) USA and Mexico  
(C) France and Germany  
(D) Russia and China
- 'Tidal forest' is otherwise called as—  
(A) Evergreen Forest  
(B) Monsoon Forest  
(C) Mangrove Forest  
(D) Coniferous Forest
- The rapid sliding of large masses of bed rocks is called—  
(A) Mass wasting  
(B) Landslide  
(C) Earthquake  
(D) Weathering
- A solid needle placed horizontally on the surface of the water floats due to—  
(A) Viscosity of Water  
(B) Capillary Action  
(C) Water Pressure  
(D) Surface tension of water
- Which one of the following is an indicator of air pollution ?  
(A) Lichens (B) Cycas  
(C) Algae (D) Bryophytes
- Which one of the following acids is commonly found in nature ?  
(A) Lactic acids  
(B) Sulphuric acids  
(C) Nitric acids  
(D) Acetic acids

**Part-II****Reasoning Ability**

- A start for his office and walks 3 km towards west. Then he turns right and walk 2 km and then

- again turn right and walk 5 km then again turn right and walk 2 km and then again twin turn right and walk 2 km where he now from the starting point ?  
 (A) 5 km (B) 10 km  
 (C) 20 km (D) in his own office
27. BDE : GHI :: JLM : ?  
 (A) NOP (B) NOF  
 (C) OPM (D) OPQ
28. 4 : 7 :: 9 : ?  
 (A) 15 (B) 12  
 (C) 16 (D) 8
29. KJL : ONP :: CBD : ?  
 (A) ORV (B) BCF  
 (C) OTM (D) GFH
30. Which one of the same triangle, tickle, itch ?  
 (A) CEEPS (B) FLAVOUR  
 (C) PUNGENT (D) SOUR
31. Which one is like animation, Life, wings ?  
 (A) Exist (B) Enarise  
 (C) Mortality (D) Surge
32. Opposite : Summer : Winter :: Cold ?  
 (A) Wet (B) Warm  
 (C) Freezing (D) Bold
33. Net : Ball : Sparrow : ?  
 (A) Nestle (B) Bird  
 (C) Sky (D) Warma

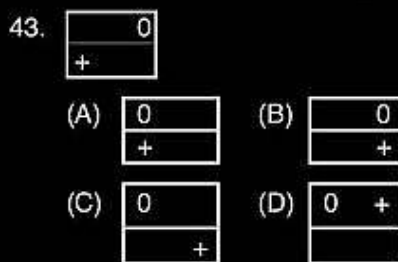
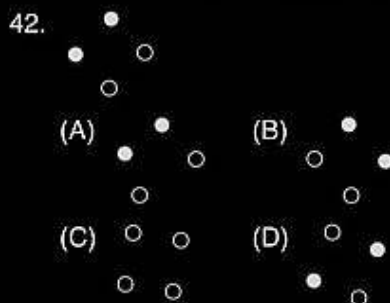
**Directions**—The following question four pairs of word are given out of which word in three pairs are related in each of the same way. Find the pairs which is differently related.

34. (A) Harsh, Polite  
 (B) Accident, Negligence  
 (C) Devil, Wrong  
 (D) Ink, Writing
35. (A) Shave, Razor  
 (B) Knife, Cut  
 (C) Draw, Pencil  
 (D) House, Live
36. How many 7's are there in the number series which are followed by 2 or 3 or 4 or 5 ?  
 73727475757207072737475767  
 778747273747576757879777273  
 (A) 12 (B) 10  
 (C) 18 (D) 16

37. How many 7's are there such that each has a 7 preceding it and 7 following it ?  
 (A) 2 (B) 11  
 (C) 16 (D) 18

38. Which is the alternate crop in jute growing area ?  
 (A) Wheat (B) Tea  
 (C) Cotton (D) Sugarcane
39. Which one of the following is high digestive protein crop ?  
 (A) Maize (B) Cotton  
 (C) Wheat (D) Tea
40. A starts and walks towards south he then turn to his right and walks 5 km then again left and walks 3 km and then again left and walks 5 km. In which direction is he from the starting point ?  
 (A) West (B) South  
 (C) North (D) East
41. A man drove his car 5 km towards east ward direction. He turned right went for 3 km, then he turned west and drove for 1 km. How far is he from the starting point ?  
 (A) 5 km (B) 6 km  
 (C) 10 km (D) 20 km

**Directions**—In the answer choices are given the reflected views of the first figure. You are to point out which is the correct reflected view.



**Directions**—In the following questions some relationships have been expressed through symbols which are—

- x stands for greater than  
 θ stands for not less than  
 + stands for equal to  
 - stands for Less than  
 β stands for not greater than  
 φ stands for not equal to

Bearing this relationship in mind work out the following questions.

44.  $A\beta B-C$  implies—  
 (A)  $A\beta B$  (B)  $A + C$   
 (C)  $B + C$  (D)  $C \times A$
45.  $A\phi B+C$  implies—  
 (A)  $C-B$  (B)  $B + C$   
 (C)  $C\beta A$  (D)  $A \times B$

**Directions**—In the questions below, if the given interchanges are made in signs and numbers, which one of the four answer choices would be correct ?

46. Given interchanges : signs + & - and numbers 8 and 2—  
 (A)  $2 - 8 + 6 = 4$   
 (B)  $2 - 8 + 7 = 4$   
 (C)  $2 + 8 - 9 = 16$   
 (D)  $2 + 8 - 4 = 10$
47. Given interchanges : signs  $\times$  and + and numbers 4 and 2—  
 (A)  $2 + 4 \times 5 = 13$   
 (B)  $2 + 4 \times 6 = 15$   
 (C)  $2 \times 4 + 4 = 18$   
 (D)  $2 \times 4 + 4 = 9$
48. In a certain code 'JUDICIAL' is written as JDUICILA. How will 'GLORIOUS' be written ?  
 (A) GOTOSRSU  
 (B) GLOOTRSU  
 (C) GOUICILA  
 (D) GOLRIOSU
49. In a certain code MAN is written as SANM and WORD is written as SORDW. How would SALE be written in the code ?  
 (A) SALES (B) LESAS  
 (C) SEALS (D) LEASS

**Directions**—In the question below there is a different rule according to which each of the cells below are filled except one. Understand the rule applied and fill in the entries in the particular place so as complete the Puzzle.

50. 

17	18	19
17	36	01
12	31	?

  
 (A) 12 (B) 11  
 (C) 13 (D) 15

### Part-III

## Numerical Ability

51. Two men P and Q start a journey from some place at a speed of

a km/hr and  $3\frac{1}{2}$  km/hr respectively. If they move in same direction then what is the distance between them after 4 hours ?

- (A) 3 km (B)  $2\frac{1}{2}$  km  
(C) 2 km (D)  $3\frac{1}{2}$  km

52. A 500 m long goods train crosses a platform in 36 seconds. If the length of the platform is 220 m, then what is the speed of the goods train in km/hr ?

- (A) 60 (B) 72  
(C) 80 (D) 85

53. The sum due in 219 days hence whose present worth at  $5\frac{1}{2}$  % of ₹ 400 is : ?

- (A) ₹ 300 (B) ₹ 312  
(C) ₹ 390 (D) ₹ 413.20

54. Omdutt started a business with a capital of ₹ 8000. After six months, Sanjay joined him with investment of some capital. If at the end of the year each of them gets equal amount as profit, how much did Sanjay invest in the business ?

- (A) ₹ 18000 (B) ₹ 17500  
(C) ₹ 16000 (D) ₹ 16500

55. The height of a cone is 7 cm and diameter of its base is 14 cm. What is the volume of the cone ?

- (A)  $411.6 \text{ cm}^3$  (B)  $359.3 \text{ cm}^3$   
(C)  $442.6 \text{ cm}^3$  (D)  $450.6 \text{ cm}^3$

56. The inner diameter of a well is 8 m. If the well is 14 m deep, then what is the volume ?

- (A)  $459 \text{ m}^3$  (B)  $981 \text{ m}^3$   
(C)  $778 \text{ m}^3$  (D)  $704 \text{ m}^3$

57. HCF of  $x^2 - y^2$  and  $x^3 - y^3$  is—

- (A)  $x - y$   
(B)  $x^3 - y^3$   
(C)  $(x^2 - y^2)$   
(D)  $(x + y), (x^2 + xy + y^2)$

58.  $(4x + 3y)^2 + (4x - 3y)^2$  is equal to—

- (A)  $16x^2 - 9y^2$   
(B)  $32x^2 + 18y^2$   
(C)  $16x^2 + 9y^2$   
(D)  $32x^2 + 9y^2$

59. If base diameter of a cylinder is increased by 50%, then by how much per cent its height must be

decreased so as to keep its volume unaltered ?

- (A) 45.56% (B) 55.56%  
(C) 50.16% (D) 62.33%

60. The surface area of a cube is 600 sq m. Its diagonal is—

- (A)  $10\sqrt{3}$  cm (B)  $5\sqrt{3}$  cm  
(C)  $4\sqrt{3}$  cm (D)  $10\sqrt{2}$  cm

61. If  $\sin \theta = -\frac{3}{5}$ , and  $\theta$  lies in the third quadrant, then the value of  $\cos (\theta/2)$  is—

- (A)  $\frac{1}{5}$  (B)  $\frac{-1}{\sqrt{(10)}}$   
(C)  $\frac{-1}{5}$  (D)  $\frac{1}{\sqrt{(10)}}$

62. If  $(\sec \alpha + \tan \alpha)(\sec \beta + \tan \beta)(\sec \gamma + \tan \gamma) = \tan \alpha \tan \beta \tan \gamma$ , then  $(\sec \alpha - \tan \alpha)(\sec \beta - \tan \beta)(\sec \gamma - \tan \gamma) = ?$

- (A)  $\cot \alpha \cot \beta \cot \gamma$   
(B)  $\tan \alpha \tan \beta \tan \gamma$   
(C)  $\cot \alpha + \cot \beta + \cot \gamma$   
(D)  $\tan \alpha + \tan \beta + \tan \gamma$

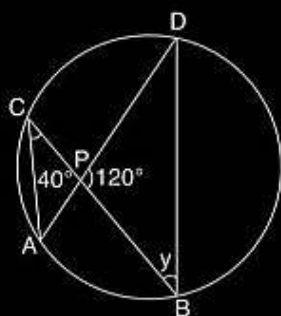
63.  $(16)^{-3/4} + 2^{-3} + (8)^{-2/3}$  is equivalent to—

- (A)  $\frac{1}{2}$  (B)  $\frac{3}{2}$   
(C)  $\frac{9}{2}$  (D)  $\frac{5}{4}$

64. If two triangles are on the same base and between the parallel lines, then they will be—

- (A) equilaterals  
(B) right angled  
(C) equal in area  
(D) congruent

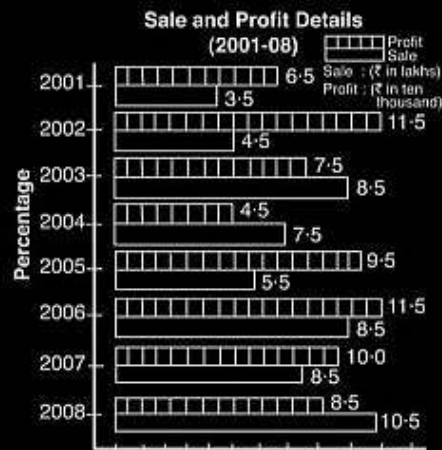
65. In the fig. if  $\angle ACB = 40^\circ$ ,  $\angle DPB = 120^\circ$ , then find  $y$ .



- (A)  $10^\circ$  (B)  $20^\circ$   
(C)  $15^\circ$  (D)  $25^\circ$

**Directions**—The bar graph as shown below gives information about the sale and profit details of a depart-

mental. store during the years from 2001-08. Study the graph carefully and answer the questions asked here under.



66. Mean of annual increase in sale from 2003 to 2008 (rupees in lakhs) is—

- (A) 0.1 (B) 0.2  
(C) 0.3 (D) 0.4

67. Annual mean profit of the store (rupees in ten thousands) is approximately—

- (A) 8.5 (B) 8.6  
(C) 8.7 (D) 9.0

68. During which of the following years percentage of profit earned by the store on the total sale was at the highest level ?

- (A) 2001  
(B) 2002  
(C) 2003  
(D) 2005

69. Assuming the profit earned during the year 2001 as base (100), the profit made by the store during the year 2008 was—

- (A) 76 (B) 105  
(C) 121 (D) 131

70. During which year between 2001 to 2006 profit made by the store as compared to the previous year was more than 100% ?

- (A) 2008  
(B) 2007  
(C) 2005  
(D) 2003

**Directions**—The pie chart, drawn, shows the spending of a country on various sports during a particular year.

Study the graph carefully and answer the questions that follow—

71. Graph shows that the most popular game of the country is—



- (A) Football (B) Hockey  
(C) Cricket (D) Tennis
72. Out of the following the country spent the same amount on—  
(A) Hockey and Cricket  
(B) Hockey and Football  
(C) Hockey and Golf  
(D) Tennis and Golf
73. The ratio of the total amount spent on football to that spent on hockey is ?  
(A) 2 : 1 (B) 1 : 1  
(C) 1 : 2 (D) 3 : 2
74. If the total amount spent on sports during the year was ₹ 1,20,00,000 how much was spent on basketball ?  
(A) ₹ 16,00,000  
(B) ₹ 18,00,000  
(C) ₹ 3,00,000  
(D) ₹ 15,00,000
75. If the total amount spent on sports during the year was ₹ 30,00,000 the amount spent on Cricket and Hockey together was—  
(A) ₹ 18,00,000  
(B) ₹ 12,00,000  
(C) ₹ 15,00,000  
(D) ₹ 20,00,000

#### Part-IV

### Computer Knowledge

76. Which of the following registers hold the information before it goes to the decoder ?  
(A) control register  
(B) data register  
(C) accumulator  
(D) address register
77. A modern electronic Computer is a machine that is meant for—  
(A) doing quick mathematical calculations  
(B) input, storage, manipulation and outputting of data  
(C) electronic data processing  
(D) performing repetitive tasks accurately
78. Which of the following bus types are used by the Apple Macintosh Computer ?  
(A) ISA (B) NuBus  
(C) EISA (D) MCA
79. When the time to establish link is large and the size of data is small, the preferred mode of data transfer is—  
(A) Circuit switching  
(B) Packet switching  
(C) Time division multiplexing  
(D) All of the above
80. Group of instructions that directs a computer is called—  
(A) Storage (B) Memory  
(C) Logic (D) Program
81. A computer-controlled device for training exercises that duplicates the work environment is a—  
(A) simulator (B) duplicator  
(C) trainer (D) COM device
82. Which of the following is not an output device of a Computer ?  
(A) Printer (B) Keyboard  
(C) VDU (D) CRT screen
83. An advantage of blocking a tape is that—  
(A) additional processing time is consumed  
(B) the direct file method can be emulated  
(C) tapes contain less data and longer tapes  
(D) less tape is used to store the same amount of data
84. Perforated paper used as input or output media is known as—  
(A) Paper tape  
(B) Magnetic tape  
(C) Punched paper tape  
(D) Card punch
85. What is the byte capacity of a drum which is 5 inch high, 10 inch diameter and which has 60 tracks per inch and bit density of 800 byte per inch ?  
(A) 942000 byte  
(B) 9712478 byte  
(C) 192300 byte  
(D) 14384 byte
86. Ethernet uses—  
(A) Bus topology  
(B) Ring topology  
(C) Star topology  
(D) Tree topology
87. What is the latest write once optical storage media ?  
(A) Digital paper  
(B) Magneto-optical disk  
(C) WORM disk  
(D) CD-ROM disk
88. CD-Rom stands for—  
(A) Compactable Read only memory  
(B) Compact Date Read Only memory  
(C) Compactable Disk Read only Memory  
(D) Compact Disk Read only Memory
89. IBM 1401 is—  
(A) First Generation Computer  
(B) Second Generation Computer  
(C) Third Generation Computer  
(D) Fourth Generation Computer
90. ASCII stands for—  
(A) American Stable Code for International Interchange  
(B) American Standard Code for Institutional Interchange  
(C) American Standard Code for information Interchange  
(D) American Standard Code for Interchange Information
91. Chief Component of First Generation Computer was—  
(A) Transistors  
(B) Vaccum Tubes and Valves  
(C) Integrated Circuits  
(D) None of above
92. The personal computer industry was started by—  
(A) IBM (B) Apple  
(C) Compaq (D) HCL

116. If had gone to Mumbai, I would surely bring your books.  
(A) would have surely brought  
(B) could have surely brought  
(C) might have brought  
(D) No improvement

**Directions**—(Q.117–120) Choose the alternative which can be substituted for the given sentence.

117. Unfair advantages for members of one's own family—  
(A) Optimism (B) Plagiarism  
(C) Nepotism (D) regionalism
118. Always ready to attack or quarrel—  
(A) Creative (B) impatient  
(C) aggressive (D) malicious
119. Drawl : Speak : :  
(A) Foster : Develop  
(B) Seintillate : Flash  
(C) Pare : Trim  
(D) Saunter : Walk
120. Ratify : Approval : :  
(A) Pacify : Conquest  
(B) Duel : Combat  
(C) Appeal : Authority  
(D) Tribulate : Opinion

**Directions**—(Q. 121–125) In the following passage, there are blanks, each of which has been numbered. These numbers are printed below the passage and against each, five words are suggested, one of which fits the blank appropriately. Find out the appropriate word in each case.

The ...(121)... of Bengal tigers left in the world has ...(122)... from 1,00,000 to 4,000 over the last century. The main threats are ...(123)... of habitat, poaching and the trade in tiger parts for Eastern medicines. Most Bengal tigers live in protected areas of India. Anti-poaching task-forces have been ...(124)... up and there is also a trade ...(125)... on tiger products in many countries, as a measure to save this rare species.

121. (A) form (B) kind  
(C) glory (D) number
122. (A) limited (B) shrunk  
(C) abolished (D) eliminated
123. (A) prevention (B) encroaching  
(C) condition (D) shift
124. (A) set (B) brought  
(C) swept (D) deployed
125. (A) agreement (B) contract  
(C) ban (D) link